DR. V. S. ANIL KUMAR

CURRICULUM VITAE | ACADEMIC PROFILE

PERSONAL DETAILS

Name	Dr. V. S. Anil Kumar
Date of Birth	04 February 1972
Designation	Principal, Government College, Kasaragod
Email	vsanilbotany@gmail.com
Contact	9496370425
Address	TC 40/1478(1), KNRA 103, Thathwamasi, Manacaud P.O., Trivandrum, Kerala 695 009, India
Languages	English, Malayalam (mother tongue), Hindi, Tamil

EDUCATION

Doctor of Philosophy (PhD), Botany	2015 · Kerala University
Master of Philosophy (MPhil), Botany	1997 · Kerala University
Bachelor of Education (BEd), Natural Science	1995 · Kerala University
Master of Science (MSc), Botany	1994 · Kerala University · Abraham Memorial Gold Medal · First Rank in the University
Bachelor of Science (BSc), Botany	1992 · Kerala University · First Rank in the University

ACHIEVEMENTS / HONOURS RECEIVED

1. Secured First Rank with Gold Medal for Postgraduate Degree (Botany), Kerala University (1994).
2. Secured First Rank for Graduate Course, Kerala University (1992).
3. A Grade for MPhil degree from Kerala University.
4. Subject Expert for various government academic programmes.
5. Subject Expert, State Council of Educational Research and Training, Kerala State, India.
6. Reviewer for journals including JoTT, JASP, Phytotaxa, Indian Forester, Nordic Journal of Botany, Bothalia and Springer Nature.
7. Resource person in national seminars and invited lectures.
8. Served as a member of the PG Board of Studies, Kerala University.
9. Served as a member of the Board of Studies, Mar Ivanios College (Autonomous).
10. Served as Chairman of PG Question Paper Setting, University of Calicut.
11. Drymaria anilii was eponymised in recognition of his contributions.
12. Reported more than 30 new plant taxa from the southern Western Ghats of Kerala, published in international indexed journals.
13. Distinguished Researcher Award by Scientific Laurels.

FELLOWSHIPS

1. Fellow of Linnaean Society of London (FLS)
2. Fellow of Indian Association of Angiosperm Taxonomy (FIAAT)
3. Fellow of Bose Science Society (FBSS)

MEMBERSHIPS IN ORGANISATIONS – NATIONAL & INTERNATIONAL

1. Life Member – Indian Botanical Society
2. Life Member – Indian Association of Angiosperm Taxonomy
3. Life Member – Italian Botanical Society
4. Life Member – Bose Science Society (TN)
5. Life Member – Society for Environment and Sustainable Development

RESEARCH EXPERIENCE

- Supervised 32 MSc dissertations and 1 MPhil dissertation.
- Carried out systematic studies of Solanum species using micromorphological and molecular data and reported the first species from the country.
- Carrying out extensive explorations in the southern Western Ghats of Kerala.
- Currently guiding 3 PhD scholars.
- Two scholars awarded PhD under guidance.
- Research focus includes Amaranthaceae, Acanthaceae, Solanaceae and Poaceae.

TECHNICAL EXPERTISE

- Plant identification and herbarium preparation.
- Molecular systematic tools – ISSR, ITS and cp genes.
- Scanning electron microscopy and data interpretation.
- FTIR spectral data interpretation and correlation with chemotaxonomy.

RESEARCH INTERESTS

- Plant systematics
- Conservation biology
- Phytochemistry
- Biodiversity documentation and plant migration

PAPER PRESENTATIONS AND CONFERENCE / SEMINAR PARTICIPATION

1. Analysis of variations among accessions of Solanum torvumSw. revealed by RAPD, protein polymorphism and torvocide content - Second National Symposium on Innovative Approaches and Modern Technologies for Crop Productivity, Food Safety and Environmental Sustainability- 19-20 November 2012 at Trichur
2. Analysis ofvariations in genetic diversity and differentiation among Solanum species revealed by Random Amplified Polymorphic DNA - Second Indian Biodiversity Congress (IBC 2012) 9-11TH December at IISC Bangalore
3. Electron microscopic and IR spectral analysis of the nipple fruit plant (Solanum mammosum L.) - 8th National Seminar on Medicinal Plants 2013 1-2 March 2013 at RGCB TVPM
4. Taxonomic discrimination of Solanum capsicoidesAll. Accessions- A biosystematic approach - Regional Science Congress 15-16 December 2012 at Kongunadu Arts and Science College, COIMBATORE, TAMIL NADU
5. Spermoderm sculpturing patterns- A tool for solving taxonomic paradox among selected species of Solanum - First International and Third National Conference on Biotechnology Bioinformatics and Bioengineering, 28-29 JUNE 2013, Organised by SAB at Tirupati, Andrapradesh.
6. Phytochemical analysis, invitro antifungal activity and mode of action of ethanolic extracts of MarchantialinearisLehm and Lindenb. , a bryophyte - 22nd Swadeshi Science Congress, 6-8 November 2012 at CPCRI Kasaragode
7. RAPD and ISSR marker analysis of genetic variability in Solanum species of Kerala Anil Kumar VS and Murugan K (IAPT conference at Trichy on November 2014)
8. 24th Annual conference of IAAT and international conference on trends in plant systematic. 31st Oct – 2nd Nov 2014
9. FTIR spectroscopy- an effective tool in for the identification of pharmacognostically exploited Solanum species from Southern western Ghats- National conference at FMN College, Kollam on January 9th 2015
10. Silver jubilee conference of IAAT and council meeting of IAPT and International Seminar on Advancements in Angiosperm Systematics and Conservation. Dept of Botany, University of Calicut. 19th-21st November 2015
11. Convened a three-day seminar – Tools in Plant Science Research- A Conceptual Approach. Dept of Botany, University College. 8th – 10th Dec. 2015
12. Participation in International day for preservation of Ozone layer. PG and Research department of Botany, University College, Trivandrum. 23rd Sept. 2016
13. Participated in the National seminar on microbial technology for environment management. Dept of Botany, University College. 7th- 8th Dec 2016
14. Participated in the National Seminar on Chemical prospects of plant resources. Dept. of Chemistry, University College, Trivandrum.14th-15th Dec 2016.
15. Chaired a technical session on green ecology and environmental security. Indian Science congress Association, Coimbatore chapter, Konganad Arts and Science College, Coimbatore. 6th oct. 2016
16. Participation in National Seminar on Phytochemistry and Pharmacology. PG Dept of Botany and Research Centre, Govt. college for Women, Tvpm. 4th-6th October 2017.
17. Participation in Indian science congress association. 104th Indian Science Congress held at SV University, Thirupathi. 3rd- 7th Jan 2017
18. Participated in the national seminar on plant taxonomy- A tool for Biodiversity Conservation. Dept of Botany, university College, Trivandrum. 14th- 15th Dec 2017
19. Participation in recent trends in life sciences. Dept of Zoology, university college, Trivandrum. 19th- 20th. Jan 2017

LIST OF PUBLICATIONS

Reverse chronological order · 2026 to 2012

2026

1. Alex Philip Alen, Kalathil Sethumadhavan Abhilash, Thekkekara Suresh Gayathri, Sindhu Arya, Venugopalan Nair Saradhamma Anil Kumar, Jose Sojan, Veerankutty Suresh, Raju Antony, and Lakshmanan Leeja (2026). Selaginella jobii (Selaginellaceae), a new species from Kerala, India. Annales Botanici Fennici, 63(1): 201–211.

2. Arundhathi Surendran, Remya Krishnan, Venugopalan Nair Saradhamma Anil Kumar., Foliar Features reflecting Phenotypic Plasticity in Croton Bonplandianum Bail. (Euphorbiaceae) from Kerala : An Overview, Indian Forester, 152(1): 49-52 (2026).

2025

3. V. S. Deepa Lekshmi, V S Anil Kumar (2025) Notes on the taxonomic identity of Asystasia nemorum (Russel ex Wall.) Nees from India. Plant Science Today eISSN 2348-1900.

4. Viswakumar Sujatha Deepa Lekshmi, Venugopalan Nair Saradamma Anil Kumar (2025) Infraspecific variability in Asystasia dalzelliana Santapau from southern Western Ghats of Kerala - An Overview. Trends in current biology ISSN 2584-2080.

5. Punchiri Anil Kumar Dhanya Lekshmi, Viswa Kumar Sujatha Lekshmi Deepa, Venugopalan Nair Saradamma Anil Kumar(2025) Isachne cuspidata (Poaceae): A new species from the Western Ghats of Kerala , India. Feddes Repertorium

6. Arya, S., Vishnu, K. W., and Kumar, V. N. S. A. (2025). A new species of Stellaria (Caryophyllaceae) from North-East India. Phytotaxa, 693(4): 270–276. https://doi.org/10.11646/phytotaxa.693.4.2

2024

7. Viswakumar Sujatha Deepa Lekshmi, Venugopalan Nair Saradamma Anil Kumar (2024) Revising the taxonomic status of Asystasia gangetica var. krishnae Tandyekk., Pandur. & N. Mohanan (Acanthaceae). Feddes Repertorium 1-7.

8. Lekshmi Dhanya Punchiri Anil Kumar, Anil Kumar Venugopalan Nair Saradamma (2024) Revising the taxonomic status of Isachne henryi S. R. Sriniv. & Sreek. (Poaceae). Feddes Repertorium 1-7.

9. P. A. Lekshmi Dhanya, V S Anil Kumar (2024) A review on the genus Isachne R. Br. (Poaceae) - Taxonomic evaluation and recent updates for the species from Kerala, India. Trends in Current Biology, ISSN 2548- 20280

10. Arya Sindhu, Venugopalan Nair Saradamma Anil Kumar (2024). Impatiens neo-uncinata (Balsaminaceae), a new species from southern Western Ghats of Kerala, India. Phytotaxa 644 (1): 1–9.

11. Sindhu Arya, Venugopalan Nair Saradamma Anil Kumar, Ambika Viswanathan Pillai, Alen Alex Philip, Jose Sojan and Veerankutty Suresh (2024) A new species of Impatiens from the Nellyampathy region of southern Western Ghats, India Phytotaxa, 650(1):083-092.

12. Arya, S., and Kumar, V. N. S. A. (2024). Allmania janakiae (Amaranthaceae)—an interesting new species from Kerala, South India. Phytotaxa, 661(2): 197–203. https://doi.org/10.11646/phytotaxa.661.2.7

13. Venugopalan Nair Saradhamma Anil Kumar and Sindhu Arya (2024). Impatiens cheruthoniensis and I. idukkiana (Balsaminaceae), two new species from the southern Western Ghats, India. Annales Botanici Fennici, 61(1): 131–137. https://doi.org/10.5735/085.061.0119

14. Arya, S., Kumar, V. N. S. A., Sojan, J., Philip, A. A., and Suresh, V. (2024). Stellaria mcclintockiae (Caryophyllaceae), a new species from Kerala, India. Phytotaxa, 645(1): 55–65. https://doi.org/10.11646/phytotaxa.645.1.5

2023

15. Arya Sindhu, Venugopalan Nair Saradamma Anil Kumar (2023) Alternanthera flavescens (Amaranthaceae), a new addition to Flora of India. Feddes Repertorium 134(1).

16. Duilio Iamonico, Amara Noor Hussain, Arya Sindhu, Venugopalan nair Saradamma Anil Kumar, Shabnum Shaheen, Mamoona Munir and Paola Fortini Trying to Understand the Complicated Taxonomy in Amaranthus (Amaranthaceae): Insights on Seeds Micromorphology Plants 2023, 12(5), 987

17. Sindhu Arya , Venugopalan Nair Saradamma Anil Kumar * (2023) Amranthus retroflexus and Amaranthus hypochondriacus (Amaranthaceae) - Two New Records for India : Indian Forester, 149 (7) : 794–796.

18. Deepa Lekshmi V S, Venugopalan Nair Saradamma Anil Kumar * (2023), Conservation Demand of Asystasia dalzelliana (Acanthaceae) – An Endemic Medicinal Herb Of Southern Western Ghats, Indian Forester, 149 (1) : 86–89

2022

19. Viswakumar Sujatha Deepa Lekshmi, Venugopalan Nair Saradamma Anil Kumar (2022) Assessment of variability in Asystasia gangetica (L.) T Anderson from the Western Ghats of Kerala, India. Plant Science Today ISSN 2148-1900

20. Sojan Jose, Venugopalan Nair Saradamma Anilkumar, Suresh V(2022) Ophioglossum Madhusoodananii (Ophioglossaceae) A Striking New Species from Southern Western Ghats of Kerala, India:, Indian Fern Journal. 39(2): 71-78

21. Punchiri Anilkumar Dhanya Lekshmi, Punnakkot Biju, Venugopalan nair Saradamma Anil Kumar* (2022) Isachne veldkampii var. malabarica (Poaceae)- a new wetland variety from Northern Kerala, India, Plant Science Today , 9(sp1): 29–32.

22. Viswakumar Sujatha Deepa Lekshmi, Arya Sindhu, Venugopalan nair Saradamma Anil Kumar* Asystasia dalzelliana var. alba (Acanthaceae), a new variety from southern Western Ghats of Kerala, India (2022) Plant Science Today 9(sp1):43-45

23. Arya Sindhu, Venugopalan nair Saradamma Anil Kumar(2022), Amaranthus deflexus L. (Amaranthaceae), a new addition to Indian Flora Plant Science Today. 2022; 9(3): 618–622.

24. Arya Sindhu, Venugopalan nair Saradamma Anil Kumar(2022), Miliusa agasthyamalana (Annonaceae), a new species from southern Western Ghats, India Phytotaxa 552 (4): 252–258

25. Biju Punnakot, Arya Sindhu, Elayanithottathil Joseph Josekutty, Venugopalan nair Saradamma Anil Kumar(2022), Impatiens thulunadensis (Balsaminaceae), a New Species from Northern Kerala, India, Annales Botanici Fennici, 59(1): 207-212.

26. Arya Sindhu, Duilio Iamonico, Suresh V, Venugopalan nair Saradamma Anil Kumar(2022): First molecular and morphometric data for the genus Allmania (Amaranthaceae), with the description of a new species from India Phytotaxa: 559 (3): 221–237

27. Sindhu Arya, Venugopalan Nair Saradhamma Anil Kumar, Ambika Viswanathan Pillai, Alex Philip Alen, Jose Sojan, and Veerankutty Suresh (2022). Three new species of Polycarpaea (Caryophyllaceae) from Kerala, South India. PhytoKeys, 213: 95–110. https://doi.org/10.3897/phytokeys.213.89875

28. Punnakot Biju, Elayanithottathil Joseph Josekutty, Karuvankoodelu Subrahmanya Prasad, Venugopalan Nair Saradhamma Anil Kumar, and Jomy Augustine (2022). Emilia lateritica (Asteraceae), a new species from lateritic plateaus of Northern Kerala, India. Phytotaxa, 556(2): 201–206. https://doi.org/10.11646/phytotaxa.556.2.10

2021

29. Sindhu Arya, Murugan Govindakurup Govind, Veerankutty Suresh, Walsan Kalarikkal Vishnu, Venugopalan Nair Saradamma Anil Kumar*(2021). Three New species of Impatiens (Balsaminaceae) from southern Western Ghats of Kerala. PhytoKeys 180: 157–171

30. Sindhu Arya, Venugopalan Nair Saradhamma Anil Kumar*, Ambika Viswanathan Pillai,Alen Alex Philip, Jose Sojan, Veeran Kutty Suresh (2021) Polycarpaea palakkadensis (Caryophyllaceae), a new species from Kerala, South-West India ;Phytotaxa 527 (2): 151–157.

31. Duilio iamonico*, Sindhu Arya & Venugopalan Nair Saradamma Anil Kumar (2021), Typification and taxonomic remarks of Indobanalia (Amaranthaceae) in India, Phytotaxa, 513 (3): 265–270

32. Arya, Sindhu. Iamonico, Duilio., Sánchez-Del Pino, Ivonne &Anilkumar, V. N. S*. (2021). Alternanthera indica (Amaranthaceae), a new species from Kerala (India). Phytotaxa, 482(2), 191-196.

33. Arya, Sindhu. &Anilkumar V. N. S*. (2021). Alternanthera ebracteolata (Amaranthaceae), a new species from Kerala (SW-India). Phytotaxa, 480(3), 277-283.

34. Arya, Sindhu. Iamonico, Duilio., & Kumar, V. N. S. A. (2021). Amaranthus powellii (Amaranthaceae), a new addition for the flora of India and a preliminary list of the Indian Amaranthus species. Hacquetia. 20/2 • 257–262

2020

35. Arya, Sindhu. Suresh, V., Biju, P., Vishnu, W. K., &Anilkumar, V. N. S*. (2020). Ludwigia venugopalanii (Onagraceae), a striking apetalous species from Kerala, India. Phytotaxa, 474(2), 191-196.

36. Biju, Punnakot., Arya, Sindhu.,Venugopalan Nair Saradhamma Anilkumar* Josekutty, E. J., & Augustine, J. (2020). Lepidagathis ananthapuramensis (Acanthaceae): a new species from the lateritic plateaus of Kerala, India. Phytotaxa, 460(4), 269-276.

37. Arya, Sindhu, Reshma Raju, Parappurakkal Thazhe Arunraj, Walsan Kalarikkal Vishnu, Punnakot Biju, and Venugopalan Nair Saradhamma Anilkumar* (2020). "Utricularia kamarudeenii(Lentibulariaceae): a new species from Kerala, India." Phytotaxa 447, : 68-72.

38. Arya, Sindhu, Anilkumar Venugopalan Nair Saradhamma, Vishnu Walsan Kalarikkal & Duilio Iamonico. (2020) "Amaranthus rajasekharii (Amaranthaceae), a new species from Kerala (SW-India)." Phytotaxa 433, 2: 153-160.

39. Arya, Sindhu, Anilkumar Venugopalan Nair Saradhamma*(2020) Amaranthus saradhiana A new record to Tamil Nadu, India Indian Forester 146:9 06 / 08

2019

40. Arya, Sindhu., Kumar, V. N. S. A*., Vishnu, W. K., & Kumar, T. R. (2019). Amaranthus saradhiana (Amaranthaceae)—a new species from southern Western Ghats of Kerala, India. Phytotaxa, 403(3), 230-238.

2018

41. Nazreen, Salma & S, AnilKumar & V, Viji & Anil Kumar V.S*. (2018). Foliar features of Alternanthera (Forssk.) species of southern western ghats of Kerala, International Journal of Advanced Research 6(7):144-151 ·

42. Anil Kumar, V.S*., Sreeja Sudhakaran, Dinesh Babu, K.V., Arya, S (2018). Assessment of nutritional quality in tomato Solanum lycopersicum.) and cherry tomato Solanum lycopersicum l. var. cerasiforme fruits. Indian Journal of Tropical Biodiversity, 26(2)

43. Anil Kumar V. S*., Sunila A. V., Remya Krishnan and Murugan K (2018). ISSR Markers for Comparative Analysis of Genetic Variability in Solanum L. Species of Southern Western Ghats of Kerala, South India. European Journal of medicinal and Pharmaceutical Research5(2), 293- 300

44. Anil Kumar V. S*., Sunila A. V., S. Anil Kumar, Remya Krishnan and Greeshma R. B. (2018) Bio-potentials of Acrotrema arnottianum Wight. – An Endemic Medicinal Herb of Southern Western Ghats of Kerala, South India, World Journal of Pharmacy and Pharmaceutical Sciences.7(2),1052-1063

2017

45. V.S. Anil Kumar*, A.V. Sunila and K. Murugan (2017) Foliar trichomes and their systematic relevance in Solanum (Solanaceae) species from southern Western Ghats, Kerala Rheedea 27(2)119–131

2016

46. V. S. Anil Kumar*, K.V. Dinesh Babu, R. Salini, Jollykutty Eapen, M. S. Deepa (2016). FTIR Spectroscopy Data as a Fingerprint of Withania Somnifera Root Tissues: A Case Study with Accessions of the Species from Kerala, South India. Indo American Journal of Pharmaceutical Research,6(6): 5748-5756.

47. A.V.Sunila, V.S. Anil Kumar, G.C. Satisha and K. Murugan*(2016)Nutritional Composition of the Egg Fruit (Pouteria campechiana (Kunth) Baehni): A Potential Alternative Source of Nutraceuticals Indian Journal of Natural Sciences 6: 36 10932- 1094

48. A.V. Sunila, V.S. Anil Kumar, K.V. Dinesh Babu and K. Murugan (2016) Comparison of FTIR fingerprints in the fruits of Pouteria campechiana (Kunth) Baehni at different developmental stages, International Journal of Pure and Applied Biosciences.4 (1): 226-234

49. V.S. Anil Kumar*, A.V.Sunila, and K. Murugan (2016) Micromorphological and FTIR spectral analysis of Solanum trilobatum l. (Solanaceae) - a medicinally valued thornycreeper from south India. International Journal of Advanced Research 4(1), 1249- 1257

2015

50. A.V. Sunila, V.S. Anil Kumar and K. Murugan (2015) Phenolic acids composition during developmental stages of egg fruit Pouteria campechiana (Kunth) Baehni , International Journal of Advanced Life Sciences,.8 (4), 430- 435

51. Anil Kumar V.S*., Maya Nair C. and Murugan. K. (2015) Pollen morphology of selected taxa of the genus Solanum from Southern Western Ghats, Kerala,India. Rheedea, 25(2): 128-145.

52. V.S. Anil Kumar, Maya C. Nair, Soumya. M. & K. Murugan (2015). Taxonomic delineation of Solanum exarmatum, a new species from Solanum capsicoides All. in Southern Western Ghats, Kerala, India, Phytotaxa. 221(3), 295-300.

53. V.S. Anil Kumar and K. Murugan (2015), Taxonomic implications with special reference to stomatal variations in Solanum species using light and scanning electron microscope. International Journal of Applied Biology and Pharmaceutical Technology. 6(2) 112-125.

2014

54. V.S. Anil Kumar* and K. Murugan (2014) Floral Morphometrics of Solanum L. (Solanaceae) species in southern Western Ghats: Correlation with interspecific taxonomic affinities Webbia: Journal of Plant Taxonomy and Geography. Taylor and Francis group UK.

55. V.S. Aniil Kumar*, P.J. Aswathy, A.V. Sunila and K. Murugan (2014) Characterisation of Solanum diphyllum L. - a medicinally potential species from southern Western Ghats in Kerala using SEM and FTIR spectroscopy. World Journal of Pharmacy and Pharmaceutical Sciences (3) 9: 592-603

56. V.S. Anil Kumar* and K. Murugan (2014). Evaluation of genetic variability using Random Amplified Polymorphic DNA markers in selected species of Solanum L. – A potential medicinal genus. World Journal of Pharmacy and Pharmaceutical Sciences

57. V.S. Anil Kumar* and K. Murugan (2014) Electron microscopic and IR spectral Analysis of the medicinally important spiny Solanum-Solanum melongena var insanum. Journal of Aquatic Biology and Fisheries, 2 (2), 29-35.

2013

58. Anil Kumar V. S*, Meenu krishnan V. G and Murugan.K (2013), Scanning electron microscopic and IR fingerprinting study as taxonomic characters in medicinally important spiny nightshade- Solanum virginianum L.Asian Journal of Plant Science and Research 3 (2) 31-37

59. Remya krishnan, V.S.Anil Kumar and K. Murugan (2013) Establishment of cell suspension cultures in Marchantia linearis Lehm and Lindenb. For the optimum production of flavonoids 3 Biotech, Springer, 4: 49-56.

60. V.S. Anil Kumar and K. Murugan (2013) Taxonomic significance of Foliar micromorphology and their systematic relevance in the genus Solanum (Solanaceaea) Prospects of Biosciences, Addressing the Issues. Springer India Chapter 40 343-349

61. Anil Kumar. V.S, Priya Y.U and Murugan. K (2013) Variability of DNA, protein and Alkaloid content in Solanum torvum Sw. Accessions- A pharmacobotanical Herb. Indian Journal of Plant Sciences,2 (2) 85-99

62. V.S. Anil Kumar, Sruthy K Pand K. Murugan Foliar fingerprinting of Solanum spp from Kerala (2013) Phytomorphology 63 (1&2) 45-55

2012

63. Anil Kumar. V.S, Dinesh Babu K.V, Sunukumar, S.S and Murugan.K(2012) Taxonomic discrimination of solanum nigrum and Slanum giganteum by Fourier Transform Infrared Spectroscopy Data. Journal of Research in Biology, 2(5)482-488

64. V.S. Anil Kumar and K.Murugan (2012) Morphological and IR fingerprinting of Solanum spp from Kerala. Journal of PhytologicaL Research, 25(.1) 47- 55

65. V.S. Anil Kumar and K. Murugan (2012), Taxonomic discrimination of Solanumcapsicoides All. Accessions: A biosystematics Approach. Phytomorpholgy, 62 (3&4) 105-114 08 / 08